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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,614	01/18/2002	Takafumi Yáo	782_213	9025
25 91	7590	03/14/2003		
BURR & BROWN PO BOX 7068 SYRACUSE, NY 13261-7068			EXAMINER	DICKEY, THOMAS L
			ART UNIT	PAPER NUMBER
2826				

DATE MAILED: 03/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

	Application No.	Applicant(s)
	10/051,614	YAO ET AL. 
	Examiner	Art Unit
	Thomas L Dickey	2826

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 May 2002.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 and 6 is/are rejected.
- 7) Claim(s) 2-5 and 7-9 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 18 January 2002 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. The preliminary amendment filed on 18 January 2002 has been entered.

Oath/Declaration

2. The oath/declaration filed on 20 May 2002 is acceptable.

Drawings

3. Figure 3 is objected to under 37 CFR 1.83(a). The abscissa and mantissa of the graph depicted in figure 3 are labeled "x" and "y" with no indication of what scale measurements are depicted. Therefore, the abscissa and mantissa must be shown or the figure canceled. No new matter should be entered. The examiner has looked, without success, to the written specification for an explanation of what scale measurements are depicted in this figure.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

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Information Disclosure Statement

5. The Information Disclosure Statement filed on 20 May 2002 has been considered.

Specification

6. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

7. Claim 3 is objected to because of the following informalities: The parenthetical expression $0 < X < 0.4$ should be amended to read $0 < X < 0.4$, for proper sense. Appropriate correction is required. Further, on page 5 of the application, in paragraph 26 applicant states that when X is less than .1, a $Zn_{1-x}Cd_xSe_{1-y}Te_y$ crystal emits blue light, not yellow light as is required of the light emitting layer of the first epitaxial layer group. This statement is supported by applicant's figure 4. It is suggested that applicant change the range $0 < X < 0.4$ to the range $0.1 < X < 0.4$, to avoid claiming a range that produces a device that, according to applicant's own disclosure, cannot meet the yellow light limitation of base claim 1.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by

MATSUBARA et al. (EP 977278 A2).

Matsubara et al. discloses a semiconductor light-emitting element with a substrate 16, a first epitaxial layer group 20 to emit a yellow color light which is provided on the substrate 16 and made of II-VI semiconductor compounds, and a second epitaxial layer group 22-23-24-25 to emit a blue color light which is provided on the substrate 16 and made of II-VI semiconductor compounds, wherein the second epitaxial layer group 22-23-24-25 includes a light-emitting active layer 23-24-25 made of a II-VI semiconductor compound containing Zn, Se, Te and Cd. Note figures 3-5 and column 16 lines 15-35 of Matsubara et al.

Allowable Subject Matter

9. Claims 2-5 and 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas L Dickey whose telephone number is 703-308-

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0980. The examiner can normally be reached on Mon-Thu 8-6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas L Dickey whose telephone number is 703-308-0980. The examiner can normally be reached on Mon-Thu 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TLD
03/2003

Minh Loan Tran
Minh Loan Tran
Primary Examiner